

14. (Currently Amended) A catalyst for producing hydrocarbon from a syngas, comprising:

a catalyst support on which a metallic compound is loaded, wherein an alkali metal content or an alkaline earth metal content in the catalyst support is in range of between approximately 0.01 mass% to 0.07 an impurity content of a catalyst is in a range of approximately 0.01 mass% to 0.15 mass%.

15. (Currently Amended) The catalyst according to claim 14 for producing hydrocarbon from a syngas, comprising:

a catalyst support on which a metallic compound is loaded, wherein an alkali metal content or an alkaline-earth metal content in the catalyst support is in a range of approximately 0.01 mass% to 0.041 mass%.

16. (Previously Presented) The catalyst according to claim 15, wherein the catalyst support simultaneously satisfies a pore diameter in a range of approximately 8 nm to 50 nm, a surface area in a range from 80 m²/g to 550 m²/g and a pore volume in a range from 0.5 mL/g to 2.0 mL/g.

17. (Previously Presented) The catalyst according to claim 14, wherein the catalyst support simultaneously satisfies a pore diameter in a range of approximately 8 nm to 50 nm, a surface area in a range from 80 m²/g to 550 m²/g and a pore volume in a range from 0.5 mL/g to 2.0 mL/g.

18. (Currently Amended) The catalyst according to claim 14, wherein the catalyst support allows the catalyst to have a fractured or pulverized ratio of at most 10% when an ultrasonic wave is emitted for a ~~predetermined time period~~ approximately 4 hours at a room temperature to the catalyst dispersed in water.

19. (Currently Amended) The catalyst according to claim 15, wherein the catalyst support allows the catalyst to have a fractured or pulverized ratio of at most 10% when an ultrasonic wave is emitted for a ~~predetermined time period~~ approximately 4 hours at a room temperature to the catalyst dispersed in water.

20. (Currently Amended) The catalyst according to claim 16, wherein the catalyst support allows the catalyst to have a fractured or pulverized ratio of at most 10% when an ultrasonic wave is emitted for a ~~predetermined time period~~ approximately 4 hours at a room temperature to the catalyst dispersed in water.

21. (Previously Presented) The catalyst according to claim 14, wherein the catalyst support is silica having a spherical shape.

22. (Previously Presented) The catalyst according to claim 15, wherein the catalyst support is silica having a spherical shape.

23. (Previously Presented) The catalyst according to claim 16, wherein the catalyst support is silica having a spherical shape.

24. (Previously Presented) The catalyst according to claim 17, wherein the catalyst support is silica having a spherical shape.

25. (Previously Presented) The catalyst according to claim 18, wherein the catalyst support is silica having a spherical shape.

26. (Previously Presented) The catalyst according to claim 19, wherein the catalyst support is silica having a spherical shape.

27. (Previously Presented) The catalyst according to claim 20, wherein the catalyst support is silica having a spherical shape.

28. (Previously Presented) The catalyst according to claim 14, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

29. (Previously Presented) The catalyst according to claim 15, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

30. (Previously Presented) The catalyst according to claim 16, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

31. (Previously Presented) The catalyst according to claim 17, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

32. (Previously Presented) The catalyst according to claim 18, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

33. (Previously Presented) The catalyst according to claim 19, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

34. (Previously Presented) The catalyst according to claim 20, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

35. (Previously Presented) The catalyst according to claim 21, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

36. (Previously Presented) The catalyst according to claim 22, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

37. (Previously Presented) The catalyst according to claim 23, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

38. (Previously Presented) The catalyst according to claim 24, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

39. (Previously Presented) The catalyst according to claim 25, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

40. (Previously Presented) The catalyst according to claim 26, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

41. (Previously Presented) The catalyst according to claim 27, wherein the metallic compound contains at least one of iron, cobalt, nickel or ruthenium.

42. (Previously Presented) The catalyst according to claim 28, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

43. (Previously Presented) The catalyst according to claim 29, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

44. (Previously Presented) The catalyst according to claim 30, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

45. (Previously Presented) The catalyst according to claim 31, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

46. (Previously Presented) The catalyst according to claim 32, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

47. (Previously Presented) The catalyst according to claim 33, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

48. (Previously Presented) The catalyst according to claim 34, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

49. (Previously Presented) The catalyst according to claim 35, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

50. (Previously Presented) The catalyst according to claim 36, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

51. (Previously Presented) The catalyst according to claim 37, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

52. (Previously Presented) The catalyst according to claim 38, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

53. (Previously Presented) The catalyst according to claim 39, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

54. (Previously Presented) The catalyst according to claim 40, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

55. (Previously Presented) The catalyst according to claim 41, wherein the metallic compound is made from a precursor of metallic compound of at least one of an alkali metal or alkaline-earth metal content of at most 5 mass%.

Claims 56-72 (Withdrawn).